OIPE COLLEGE C

SEQUENCE LISTING

Maxygen Aps; Maxygen Holdings

0> Protein C or activated protein C-like molecules

<130> 0219us410 - protein C

<140> US 09/997,623

<141> 2001-11-29

<150> US 09/978,917

<151> 2001-10-17

<160> 48

<170> PatentIn Ver. 2.1

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<221> sig_peptide

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-25 -20 -15

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Ala His Gln Val Leu Arg Ile Arg Lys Arg Ala Asn Ser Phe Leu Glu
-10 -5 -1 1 5

gag ctc cgt cac agc agc ctg gag cgg gag tgc ata gag gag atc tgt 192 Glu Leu Arg His Ser Ser Leu Glu Arg Glu Cys Ile Glu Glu Ile Cys

gac ttc gag gag gcc aag gaa att ttc caa aat gtg gat gac aca ctg 240 Asp Phe Glu Glu Ala Lys Glu Ile Phe Gln Asn Val Asp Asp Thr Leu

gcc ttc tgg tcc aag cac gtc gac ggt gac cag tgc ttg gtc ttg ccc 288 Ala Phe Trp Ser Lys His Val Asp Gly Asp Gln Cys Leu Val Leu Pro

Leu 55						agc Ser										336
						agc Ser										384
						gtg Val										432
						tgc Cys										480
						aag Lys 125										528
	_	_	_			tgt Cys					_		_		_	576
_	_	_		_		cga Arg	_		_	_		_	_		_	624
gat	ccg	cgg	ctc	att	qat	aga	aaq	atq	acc	agg	caa	qqa	qac	agc	CCC	672
Asp						Gly										
tg g	Pro	Arg gtg	Leu 170 gtc	Ile ctg	Asp		Lys	Met 175 aag	Thr aag	Arg	Arg ctg	Gly	Asp 180 tgc	Ser ggg	Pro gca	720
tgg Trp gtg	Pro cag Gln	Arg gtg Val 185 atc	Leu 170 gtc Val cac	Ile ctg Leu ccc	Asp ctg Leu tcc	Gly gac	tca Ser 190 gtg	Met 175 aag Lys ctg	Thr aag Lys aca	aag Lys gcg	Arg ctg Leu	Gly gcc Ala 195 cac	Asp 180 tgc Cys	Ser 999 Gly atg	Pro gca Ala gat	
tgg Trp gtg Val	cag Gln ctc Leu 200	gtg Val 185 atc Ile	Leu 170 gtc Val cac His	Ctg Leu CCC Pro	Asp ctg Leu tcc Ser	Gly gac Asp tgg Trp	tca Ser 190 gtg Val	Met 175 aag Lys ctg Leu	Thr aag Lys aca Thr	aag Lys gcg Ala	ctg Leu gcc Ala 210	gcc Ala 195 cac His	Asp 180 tgc Cys tgc Cys	Ser 999 Gly atg Met	gca Ala gat Asp	720
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tgg Trp gtg Val gag Glu 215 tgg Trp	cag Gln ctc Leu 200 tcc Ser gag Glu	gtg Val 185 atc Ile aag Lys	Leu 170 gtc Val cac His aag Lys	ctg Leu ccc Pro ctc Leu gag Glu 235	Asp ctg Leu tcc Ser ctt Leu 220 ctg Leu	gac Asp tgg Trp 205 gtc Val	tca Ser 190 gtg Val agg Arg ctg Leu	Met 175 aag Lys ctg Leu ctt Leu gac Asp	Thr aag Lys aca Thr gga Gly atc Ile 240 aat	aag Lys gcg Ala gag Glu 225 aag Lys	ctg Leu gcc Ala 210 tat Tyr	gcc Ala 195 cac His gac Asp	Asp 180 tgc Cys tgc Cys ctg Leu ttc Phe	Ser 999 Gly atg Met cgg Arg gtc Val 245 ctg	Pro gca Ala gat Asp cgc Arg 230 cac His	720 768 816

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		agc agc cga gag aag Ser Ser Arg Glu Lys 305					
		ttc atc aag att ccc Phe Ile Lys Ile Pro 320					
		agc aac atg gtg tct Ser Asn Met Val Ser 340					
		cgg cag gat gcc tgc Arg Gln Asp Ala Cys 355					
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Ala His Gln Val Leu Arg Ile Arg Lys Arg Ala Asn Ser Phe Leu Glu Glu Leu Arg His Ser Ser Leu Glu Arg Glu Cys Ile Glu Glu Ile Cys Asp Phe Glu Glu Ala Lys Glu Ile Phe Gln Asn Val Asp Asp Thr Leu Ala Phe Trp Ser Lys His Val Asp Gly Asp Gln Cys Leu Val Leu Pro Leu Glu His Pro Cys Ala Ser Leu Cys Cys Gly His Gly Thr Cys Ile Asp Gly Ile Gly Ser Phe Ser Cys Asp Cys Arg Ser Gly Trp Glu Gly Arg Phe Cys Gln Arg Glu Val Ser Phe Leu Asn Cys Ser Leu Asp Asn Gly Gly Cys Thr His Tyr Cys Leu Glu Glu Val Gly Trp Arg Arg Cys Ser Cys Ala Pro Gly Tyr Lys Leu Gly Asp Asp Leu Leu Gln Cys His 125 Pro Ala Val Lys Phe Pro Cys Gly Arg Pro Trp Lys Arg Met Glu Lys Lys Arg Ser His Leu Lys Arg Asp Thr Glu Asp Gln Glu Asp Gln Val Asp Pro Arg Leu Ile Asp Gly Lys Met Thr Arg Arg Gly Asp Ser Pro 175 Trp Gln Val Val Leu Leu Asp Ser Lys Lys Leu Ala Cys Gly Ala 185 Val Leu Ile His Pro Ser Trp Val Leu Thr Ala Ala His Cys Met Asp Glu Ser Lys Leu Leu Val Arg Leu Gly Glu Tyr Asp Leu Arg Arg 215 220 225 Trp Glu Lys Trp Glu Leu Asp Leu Asp Ile Lys Glu Val Phe Val His Pro Asn Tyr Ser Lys Ser Thr Thr Asp Asn Asp Ile Ala Leu Leu His Leu Ala Gln Pro Ala Thr Leu Ser Gln Thr Ile Val Pro Ile Cys Leu 270 265 Pro Asp Ser Gly Leu Ala Glu Arg Glu Leu Asn Gln Ala Gly Gln Glu 285 290

Thr Leu Val Thr Gly Trp Gly Tyr His Ser Ser Arg Glu Lys Glu Ala 295 300 Lys Arg Asn Arg Thr Phe Val Leu Asn Phe Ile Lys Ile Pro Val Val Pro His Asn Glu Cys Ser Glu Val Met Ser Asn Met Val Ser Glu Asn 330 Met Leu Cys Ala Gly Ile Leu Gly Asp Arg Gln Asp Ala Cys Glu Gly 350 Asp Ser Gly Gly Pro Met Val Ala Ser Phe His Gly Thr Trp Phe Leu 365 Val Gly Leu Val Ser Trp Gly Glu Gly Cys Gly Leu Leu His Asn Tyr 380 385 375 Gly Val Tyr Thr Lys Val Ser Arg Tyr Leu Asp Trp Ile His Gly His 400 Ile Arg Asp Lys Glu Ala Pro Gln Lys Ser Trp Ala Pro 410 <210> 3 <211> 1257 <212> DNA <213> Homo sapiens <220> <221> CDS <222> (1)..(1257) <400> 3 gcc aac tcc ttc ctg gag gag ctc cgt cac agc agc ctg gag cgg gag 48 Ala Asn Ser Phe Leu Glu Glu Leu Arg His Ser Ser Leu Glu Arg Glu tgc ata gag gag atc tgt gac ttc gag gag gcc aag gaa att ttc caa 96 Cys Ile Glu Glu Ile Cys Asp Phe Glu Glu Ala Lys Glu Ile Phe Gln aat gtg gat gac aca ctg gcc ttc tgg tcc aag cac gtc gac ggt gac 144 Asn Val Asp Asp Thr Leu Ala Phe Trp Ser Lys His Val Asp Gly Asp 35 40 cag tgc ttg gtc ttg ccc ttg gag cac ccg tgc gcc agc ctg tgc tgc 192 Gln Cys Leu Val Leu Pro Leu Glu His Pro Cys Ala Ser Leu Cys Cys 50 55 240 ggg cac ggc acg tgc atc gac ggc atc ggc agc ttc agc tgc gac tgc Gly His Gly Thr Cys Ile Asp Gly Ile Gly Ser Phe Ser Cys Asp Cys 65 70 75 cgc agc ggc tgg gag ggc cgc ttc tgc cag cgc gag gtg agc ttc ctc

Arg Ser Gly	Trp Glu Gl 85	y Arg Phe	Cys Gln 90	Arg Glu	Val Ser	Phe Leu 95	
	ctg gac aa Leu Asp As 100		_				336
	cgg cgc tg Arg Arg Cy						384
	g cag tgt ca Gln Cys Hi						432
	atg gag aa Met Glu Ly 15	s Lys Arg					480
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	gac agc co Asp Ser Pr 180						576
	tgc ggg gc Cys Gly Al						624
	tgc atg ga Cys Met As						672
	ctg cgg cg Leu Arg Ar 23	g Trp Glu				_	720
	ttc gtc ca Phe Val Hi 245						768
	ctg ctg ca Leu Leu Hi 260			_	_	_	816
	atc tgc ct Ile Cys Le						864
	ggc cag ga Gly Gln Gl	-				_	912
	aag gag go Lys Glu Al						960

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		g ggg ccc atg gtc gcc y Gly Pro Met Val Ala 365	
		g gtg agc tgg ggt gag u Val Ser Trp Gly Glu 380	
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Val Gly Trp Arg Arg Cys Ser Cys Ala Pro Gly Tyr Lys Leu Gly Asp 120 Asp Leu Leu Gln Cys His Pro Ala Val Lys Phe Pro Cys Gly Arg Pro 135 Trp Lys Arg Met Glu Lys Lys Arg Ser His Leu Lys Arg Asp Thr Glu 150 155 145 Asp Gln Glu Asp Gln Val Asp Pro Arg Leu Ile Asp Gly Lys Met Thr 170 Arg Arg Gly Asp Ser Pro Trp Gln Val Val Leu Leu Asp Ser Lys Lys 185 Lys Leu Ala Cys Gly Ala Val Leu Ile His Pro Ser Trp Val Leu Thr 200 Ala Ala His Cys Met Asp Glu Ser Lys Leu Leu Val Arg Leu Gly Glu Tyr Asp Leu Arg Arg Trp Glu Lys Trp Glu Leu Asp Leu Asp Ile 230 Lys Glu Val Phe Val His Pro Asn Tyr Ser Lys Ser Thr Thr Asp Asn 250 Asp Ile Ala Leu Leu His Leu Ala Gln Pro Ala Thr Leu Ser Gln Thr Ile Val Pro Ile Cys Leu Pro Asp Ser Gly Leu Ala Glu Arg Glu Leu 280 Asn Gln Ala Gly Gln Glu Thr Leu Val Thr Gly Trp Gly Tyr His Ser 295 Ser Arg Glu Lys Glu Ala Lys Arg Asn Arg Thr Phe Val Leu Asn Phe 305 310 Ile Lys Ile Pro Val Val Pro His Asn Glu Cys Ser Glu Val Met Ser 330 Asn Met Val Ser Glu Asn Met Leu Cys Ala Gly Ile Leu Gly Asp Arg 345 350 340 Gln Asp Ala Cys Glu Gly Asp Ser Gly Gly Pro Met Val Ala Ser Phe His Gly Thr Trp Phe Leu Val Gly Leu Val Ser Trp Gly Glu Gly Cys Gly Leu Leu His Asn Tyr Gly Val Tyr Thr Lys Val Ser Arg Tyr Leu 385 390 Asp Trp Ile His Gly His Ile Arg Asp Lys Glu Ala Pro Gln Lys Ser

410

405

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Trp Ala Pro

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